#4 0360

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPELLANT: Toshiyuki Masui

DOCKET NO.: 112857-074

SERIAL NO: 09/697,365

GROUP ART UNIT: Not Assigned

DATE FILED: October 26, 2000

EXAMINER: Not Assigned

INVENTION: DOCUMENT EDITING PROCESSING METHOD AND APPARATUS AND PROGRAM FURNISHING MEDIUM

OIPE JC171
MAR 05 2001
PATENT & TRADEMARK OFFICE

**TRANSMITTAL OF FORMAL DRAWINGS**

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Transmitted herewith are twenty-five sheets of formal drawings for the above-identified case. Please substitute these drawings for the informal drawings originally submitted with the application.

Respectfully submitted,

(Reg. No. 38,174)

Timothy L. Harney
Bell, Boyd & Lloyd LLC
P.O. Box 1135
Chicago, Illinois 60690-1135
(312) 807-4439
Attorneys for Applicant

| CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)<br>Applicant(s): **Toshiyuki Masui** | | | Docket No.<br>**112857-074** |
|---|---|---|---|
| Serial No.<br>**09/697,365** | Filing Date<br>**October 26, 2000** | Examiner | Group Art Unit |

Invention: **DOCUMENT EDITING PROCESSING METHOD AND APPARATUS AND PROGRAM FURNISHING**

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| Change Of Attorney Or Agent's Address In Application (37 CFR 1.8(a)) | Docket No. 112857-074 |
|---|---|

In Re Application Of: **Toshiyuki Masui**

| Serial No. | Filing Date | Examiner | Group Art Unit |
|---|---|---|---|
| 09/697,365 | October 26, 2000 | | |

Invention: **DOCUMENT EDITING PROCESSING METHOD AND APPARATUS AND PROGRAM FURNISHING**

OIPE JC171
MAR 05 2001
PATENT & TRADEMARK OFFICE

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Please send all correspondence for this application to:

**William E. Vaughan**
**Bell, Boyd & Lloyd LLC**
**P.O. Box 1135**
**Chicago, Illinois 60690-1135**

**Please note that the firm Limbach & Limbach LLP is in the process of dissolution. Bell, Boyd & Lloyd LLC has taken over responsibility for this matter.**

Please direct all telephone calls to:

**William E. Vaughan (312) 807-4292**

*Signature of Attorney or Agent of Record*

Dated: **February 28, 2001**

**Timothy L. Harney (Reg. No. 38,174)**
**Bell, Boyd & Lloyd LLC**
**P.O. Box 1135**
**Chicago, Illinois 60690-1135**

*Registration Number & Address of Attorney or Agent of Record*

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*Signature of Person Mailing Correspondence*

**Julie Alonzo**

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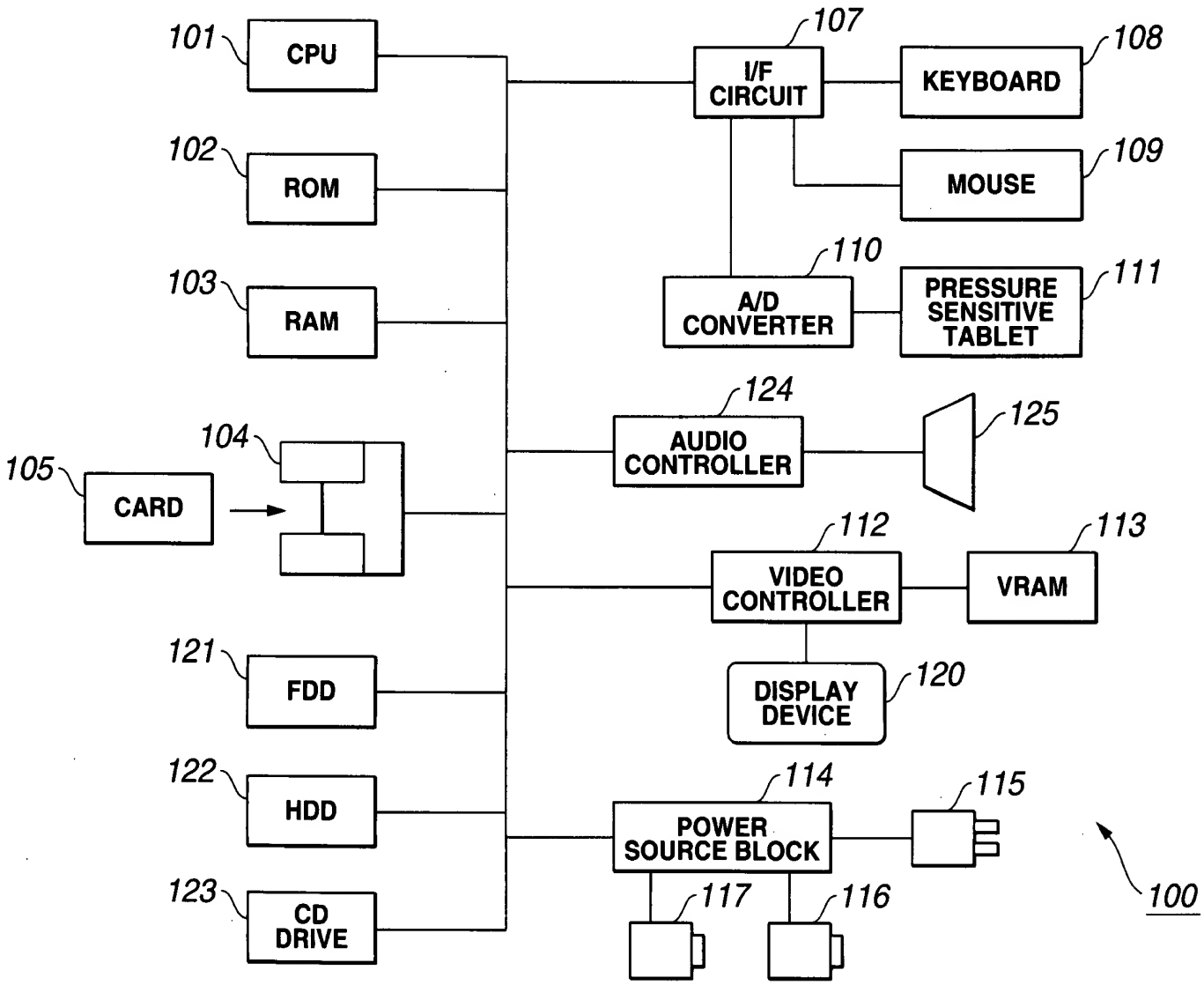

101
CPU
102
ROM
103
RAM
104
105
CARD
121
FDD
122
HDD
123
CD DRIVE
107
I/F CIRCUIT
108
KEYBOARD
109
MOUSE
110
A/D CONVERTER
111
PRESSURE SENSITIVE TABLET
124
AUDIO CONTROLLER
125
112
VIDEO CONTROLLER
113
VRAM
120
DISPLAY DEVICE
114
POWER SOURCE BLOCK
115
117
116
100

FIG.1

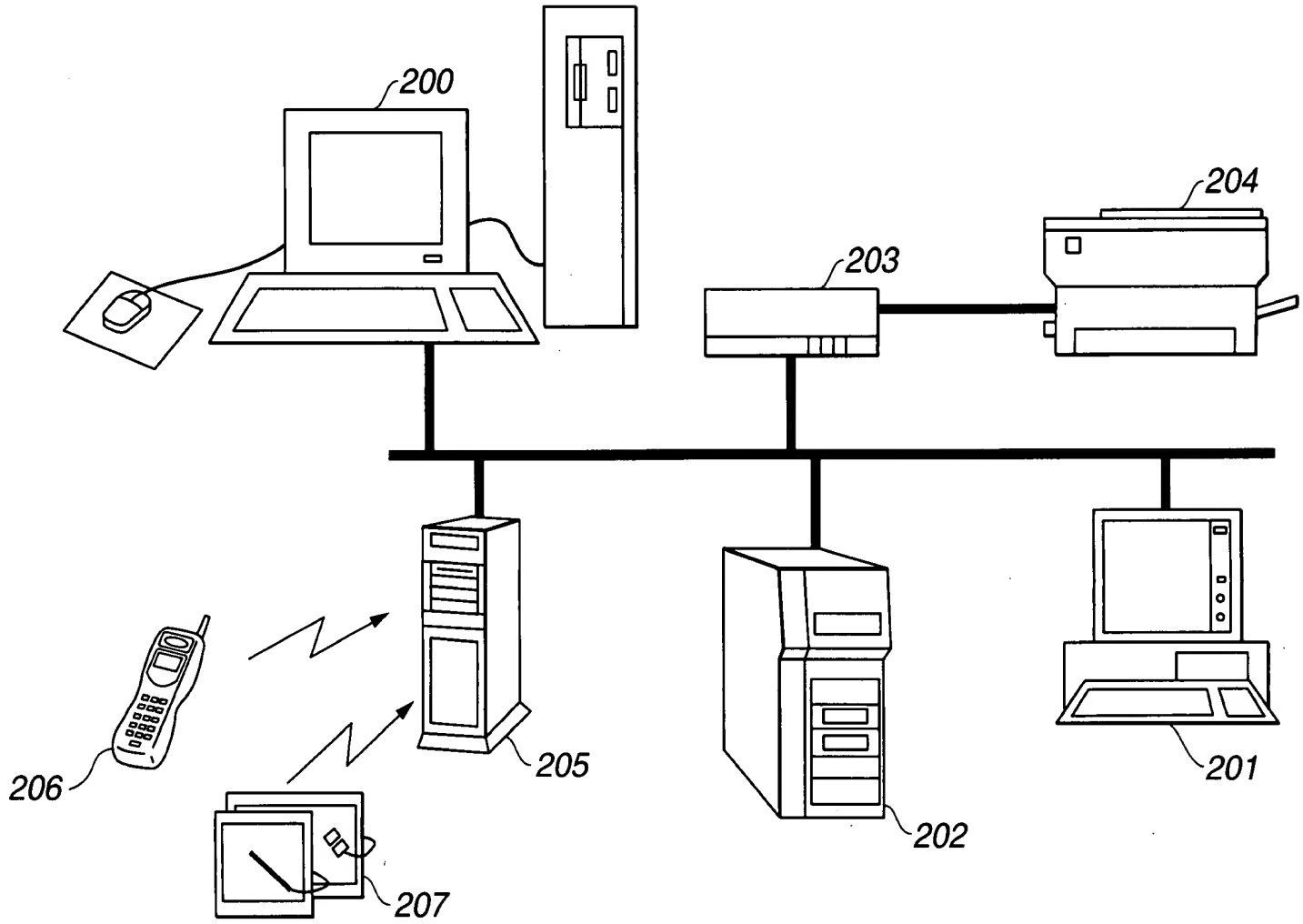
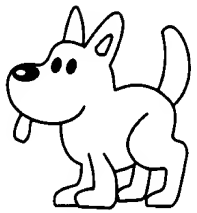
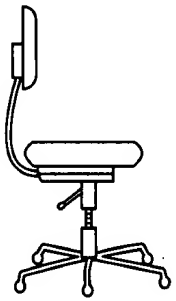



FIG.2

DATA FILE
fileA.



fileA. dog. bmp



fileA. chair. bmp

| REGISTERED ID | IMAGE DATA NAME | KEYWORD |
|---|---|---|
| IM00012 | fileA. dog. bmp | いぬ |
| | | ぽち |
| | | どっぐ |
| | | わんわん |
| IM00077 | fileA. chair. bmp | いす |
| | | こしかけ |
| | | すわる |
| | | ちぇあ |

FIG.3

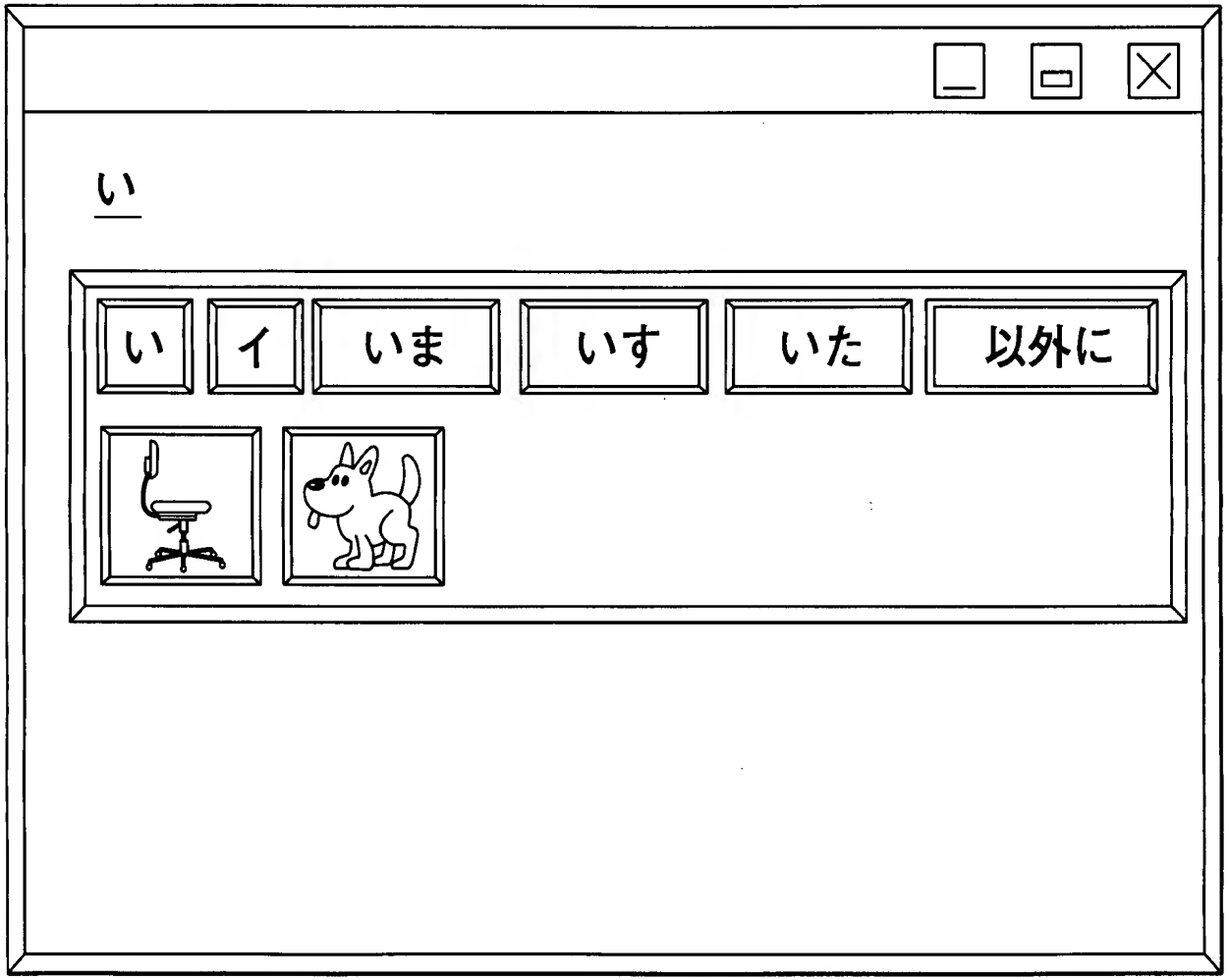
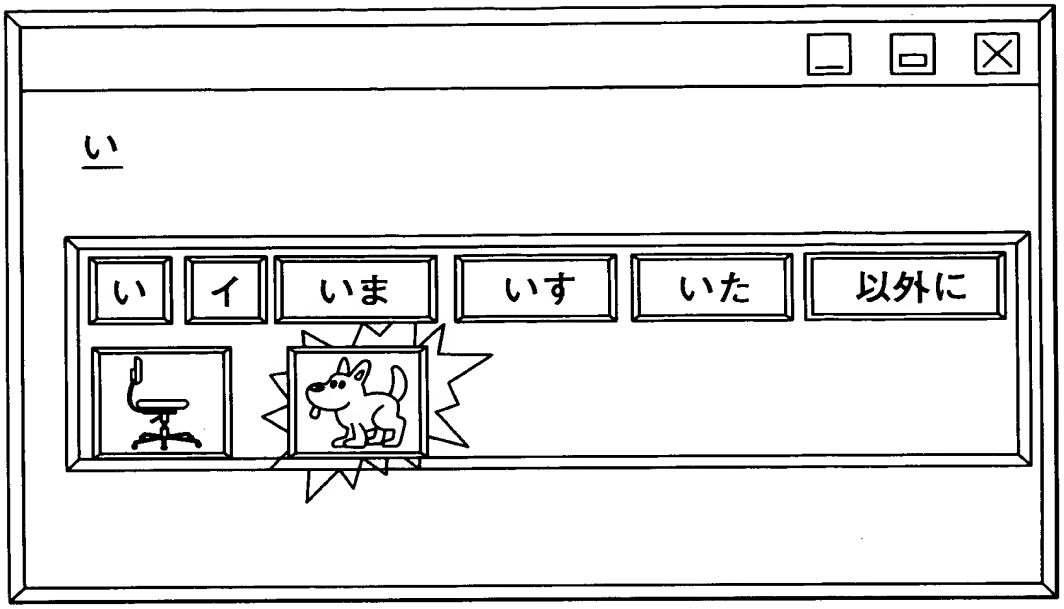



FIG.4



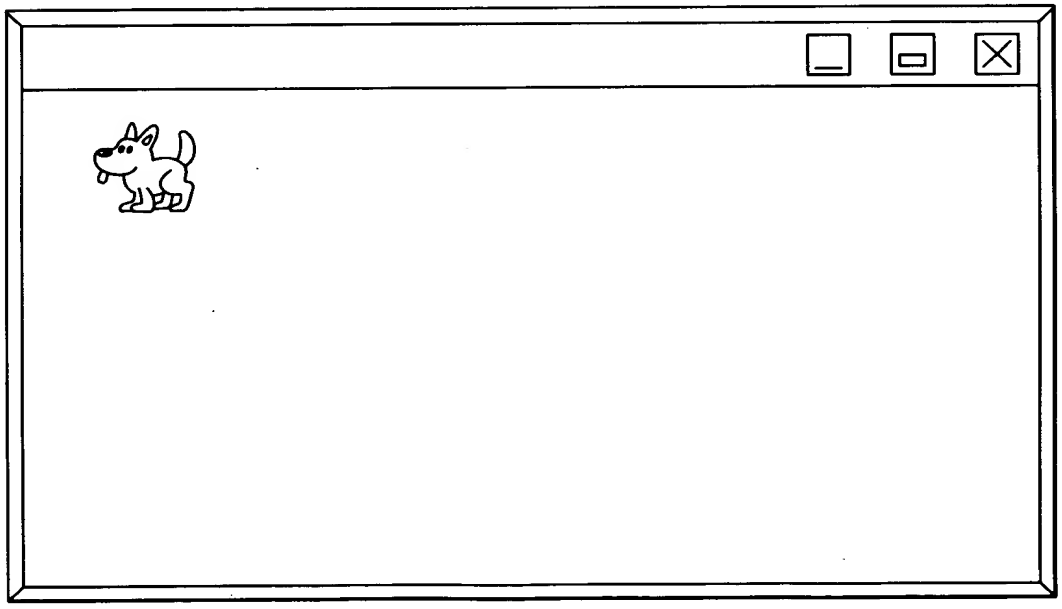
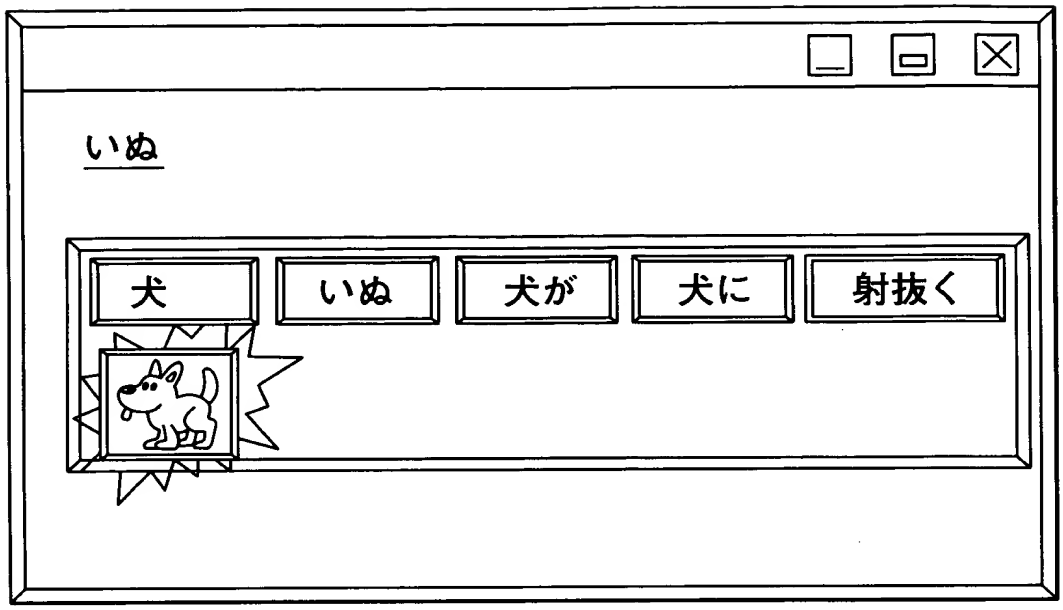



FIG.5



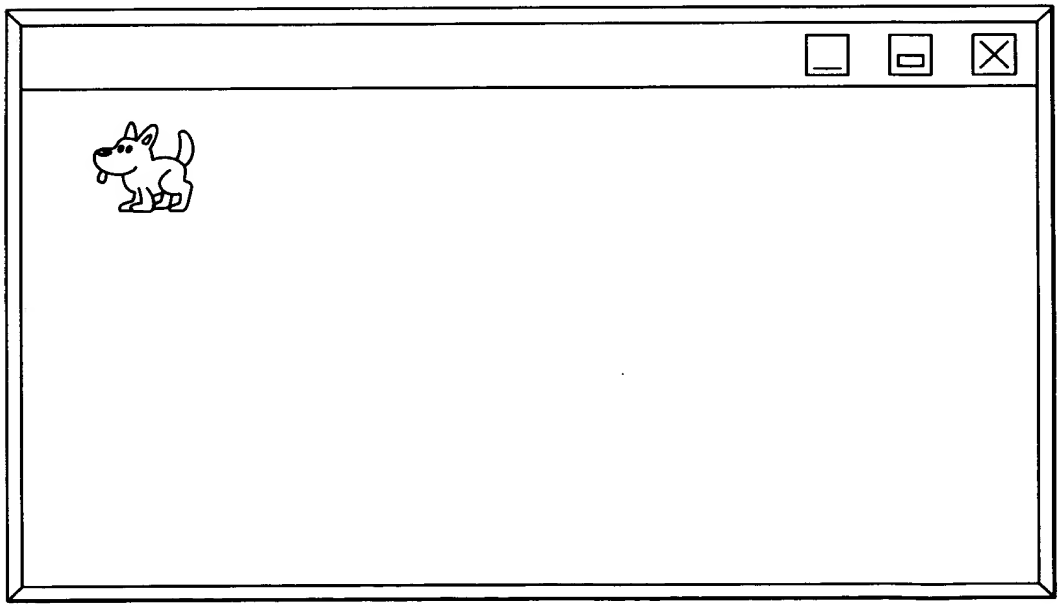
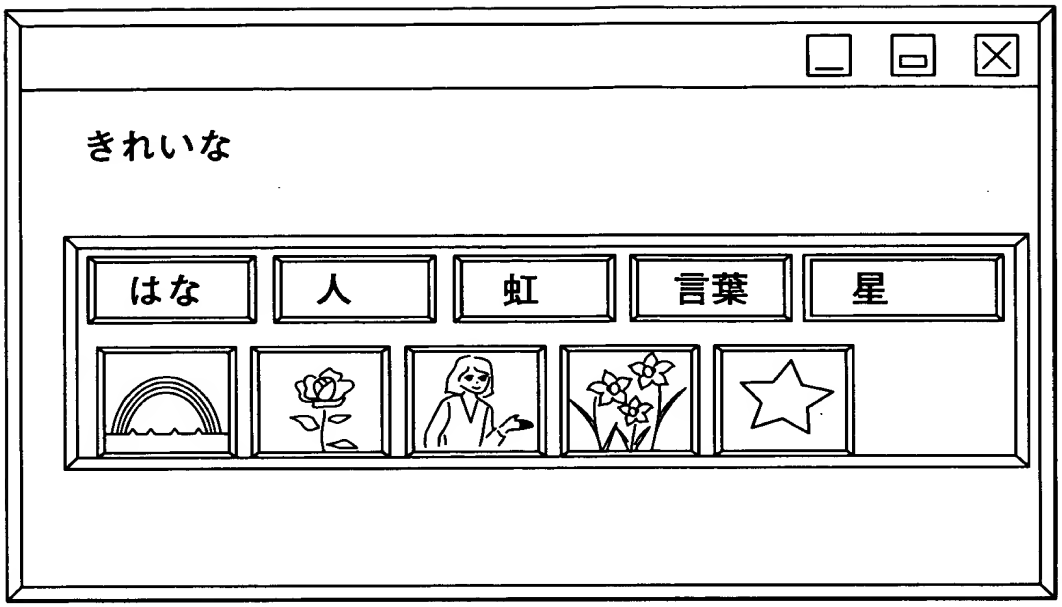



FIG.6



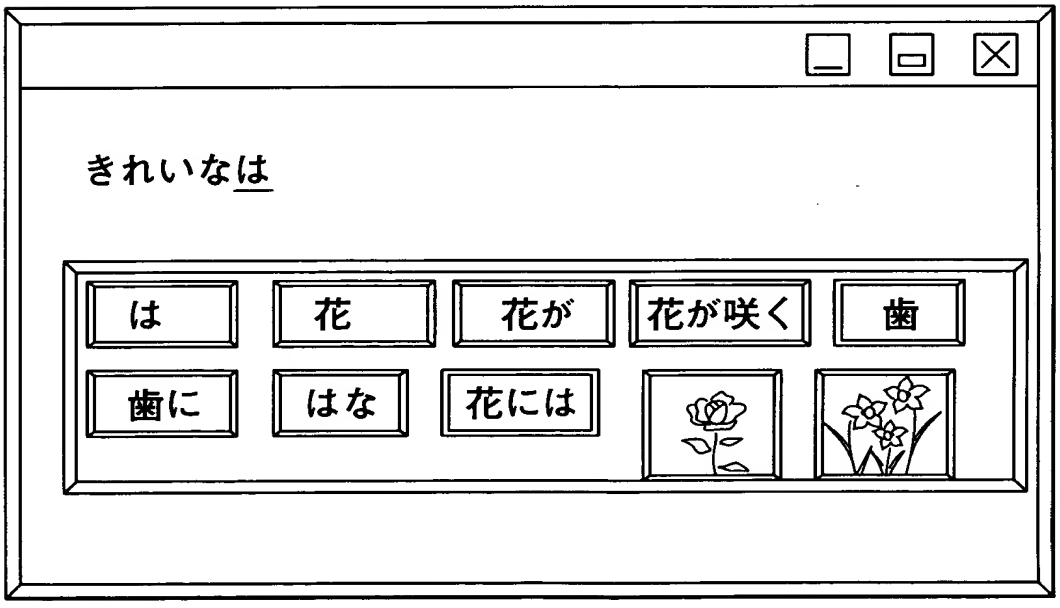




FIG.7

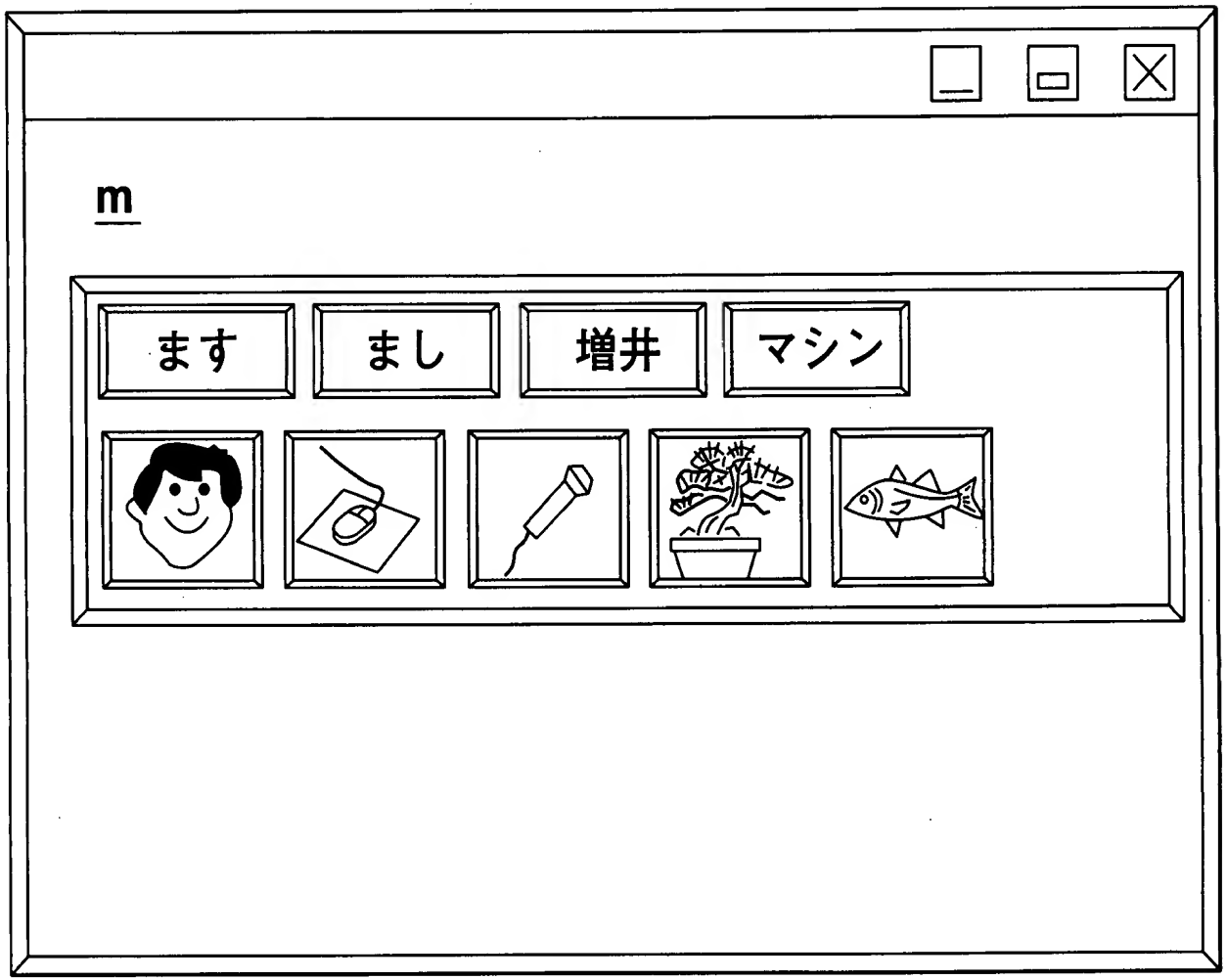



FIG.8

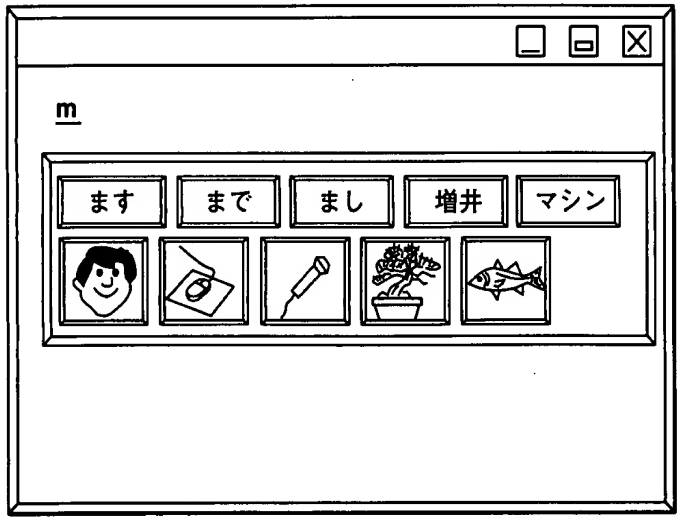



FIG.9A

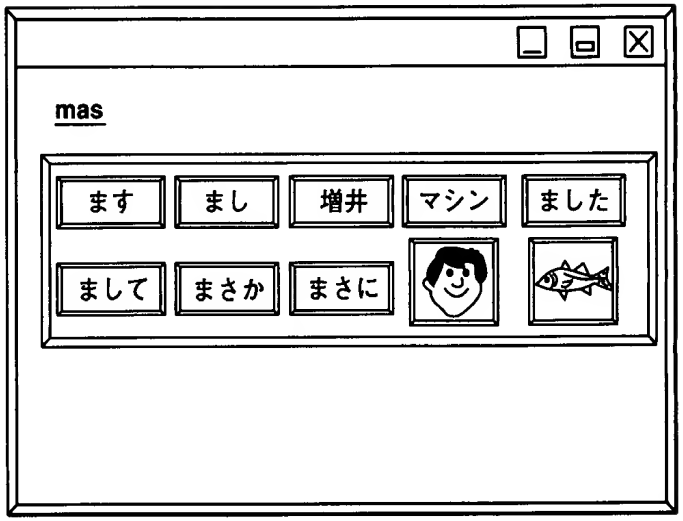



FIG.9B

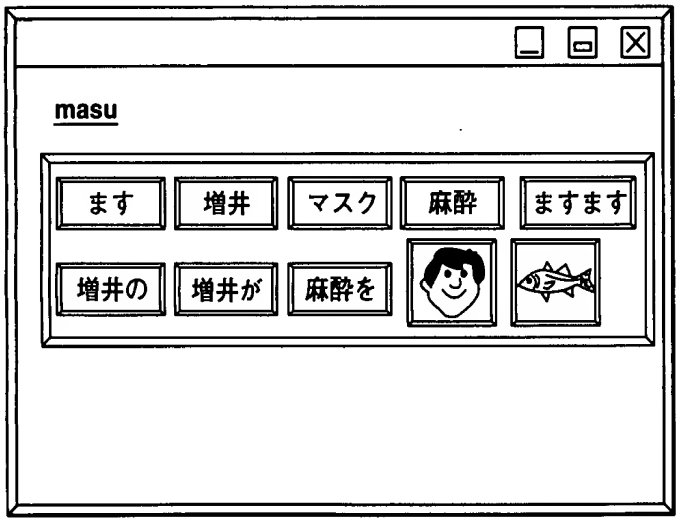



FIG.9C

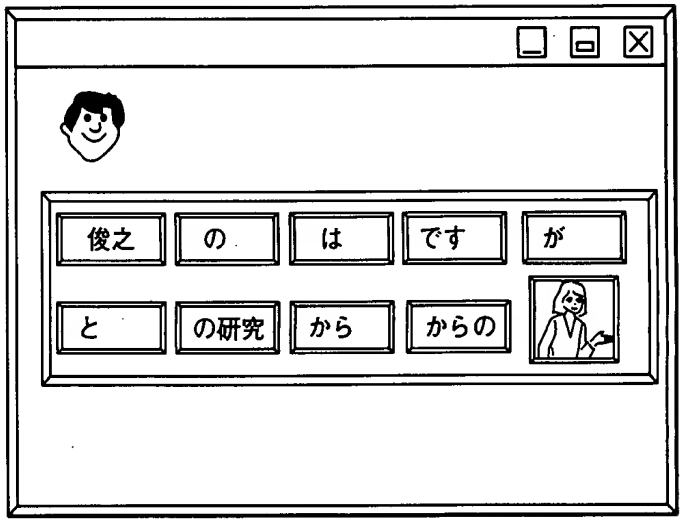



FIG.9D

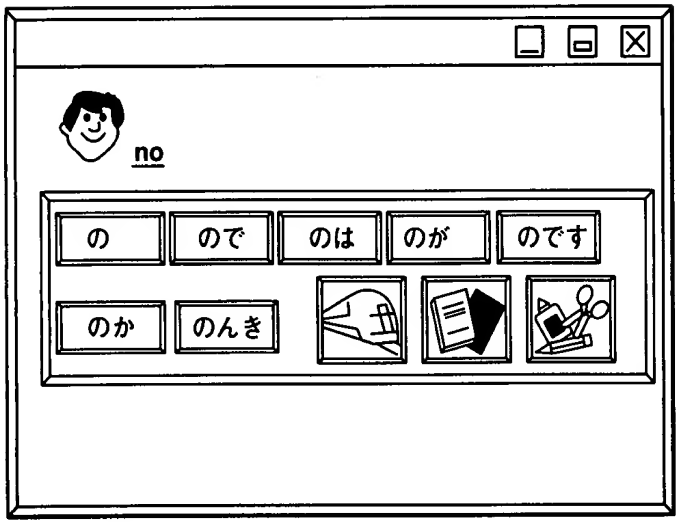



FIG.10E

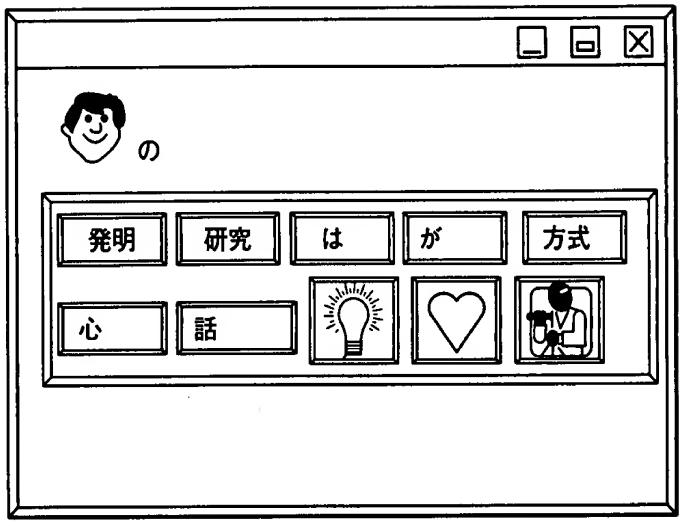



FIG.10F

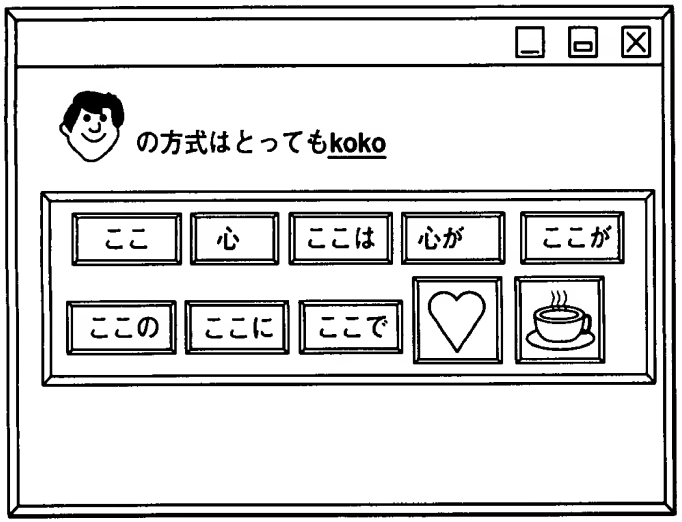



FIG.10G

FIG.10H

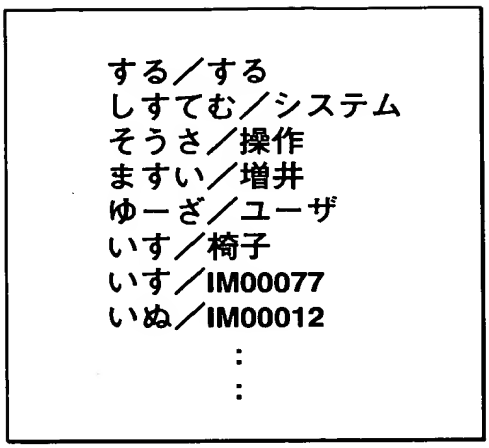

する／する
しすてむ／システム
そうさ／操作
ますい／増井
ゆーざ／ユーザ
いす／椅子
いす／IM00077
いぬ／IM00012

FIG.11

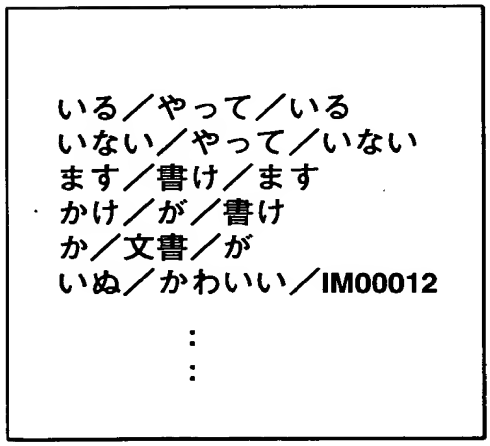

いる／やって／いる
いない／やって／いない
ます／書け／ます
かけ／が／書け
か／文書／が
いぬ／かわいい／IM00012

FIG.12

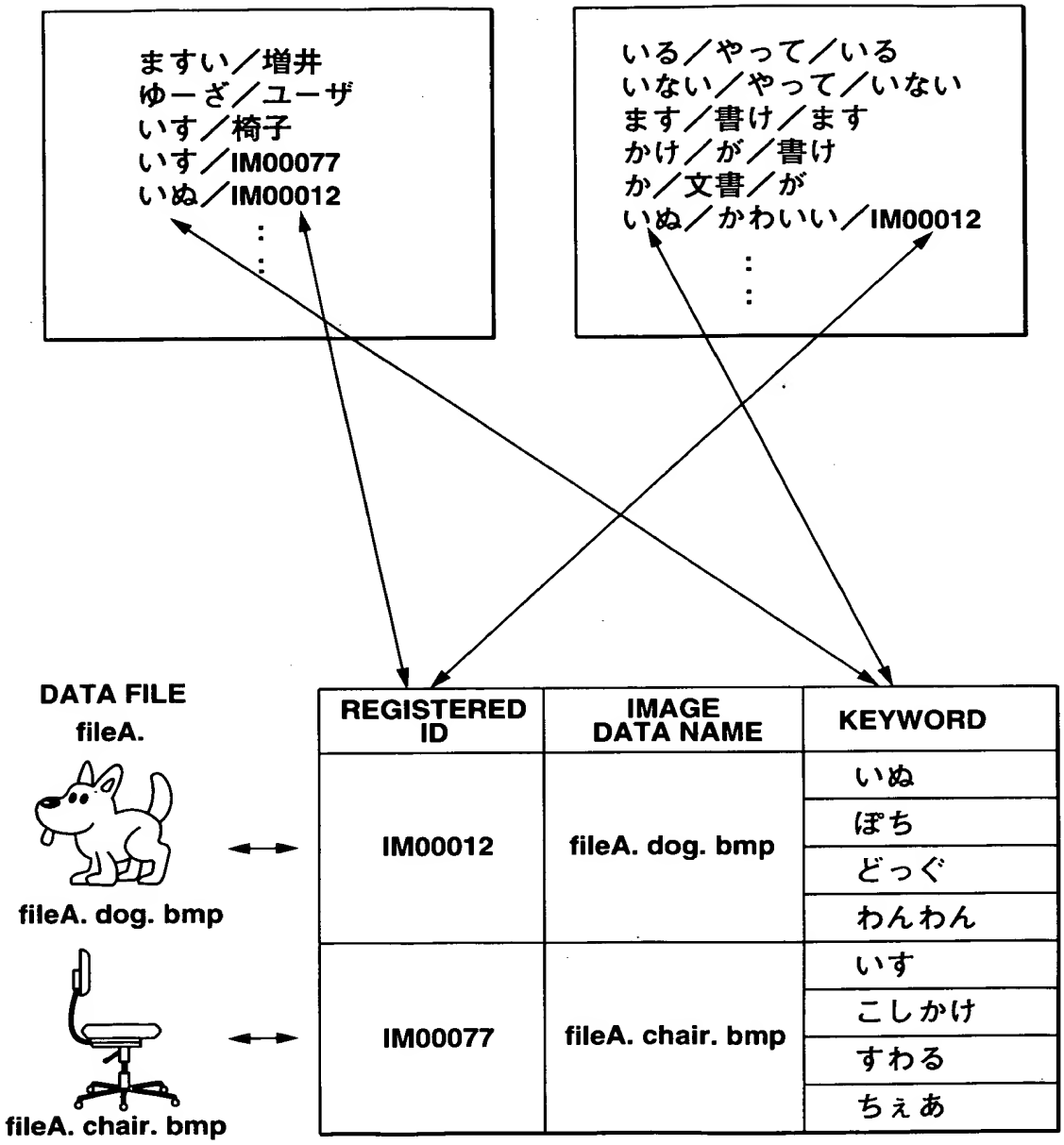

ますい／増井
ゆーざ／ユーザ
いす／椅子
いす／IM00077
いぬ／IM00012
いる／やって／いる
いない／やって／いない
ます／書け／ます
かけ／が／書け
か／文書／が
いぬ／かわいい／IM00012
DATA FILE
fileA.
fileA. dog. bmp
fileA. chair. bmp
REGISTERED ID
IMAGE DATA NAME
KEYWORD
IM00012
fileA. dog. bmp
いぬ
ぽち
どっぐ
わんわん
IM00077
fileA. chair. bmp
いす
こしかけ
すわる
ちぇあ

FIG.13

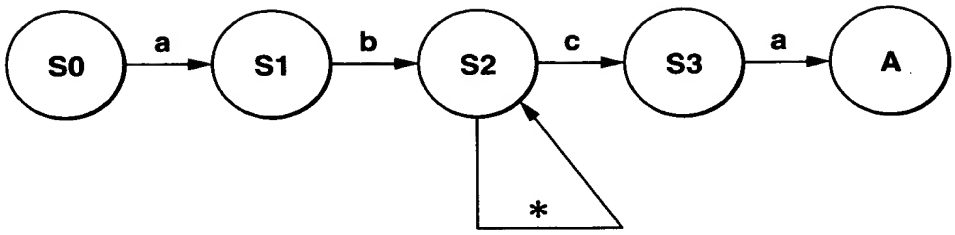



FIG.14

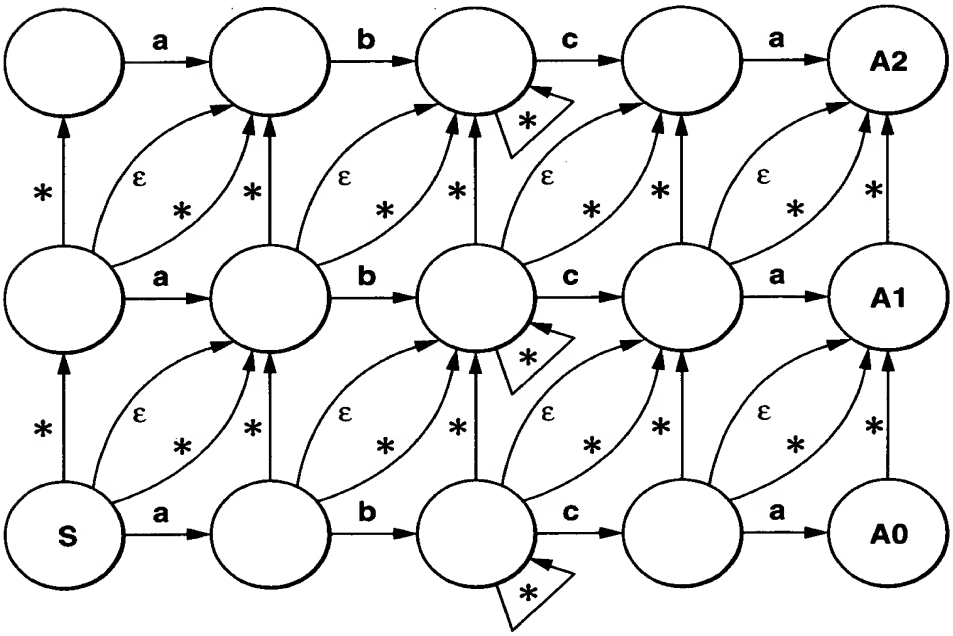



FIG.15

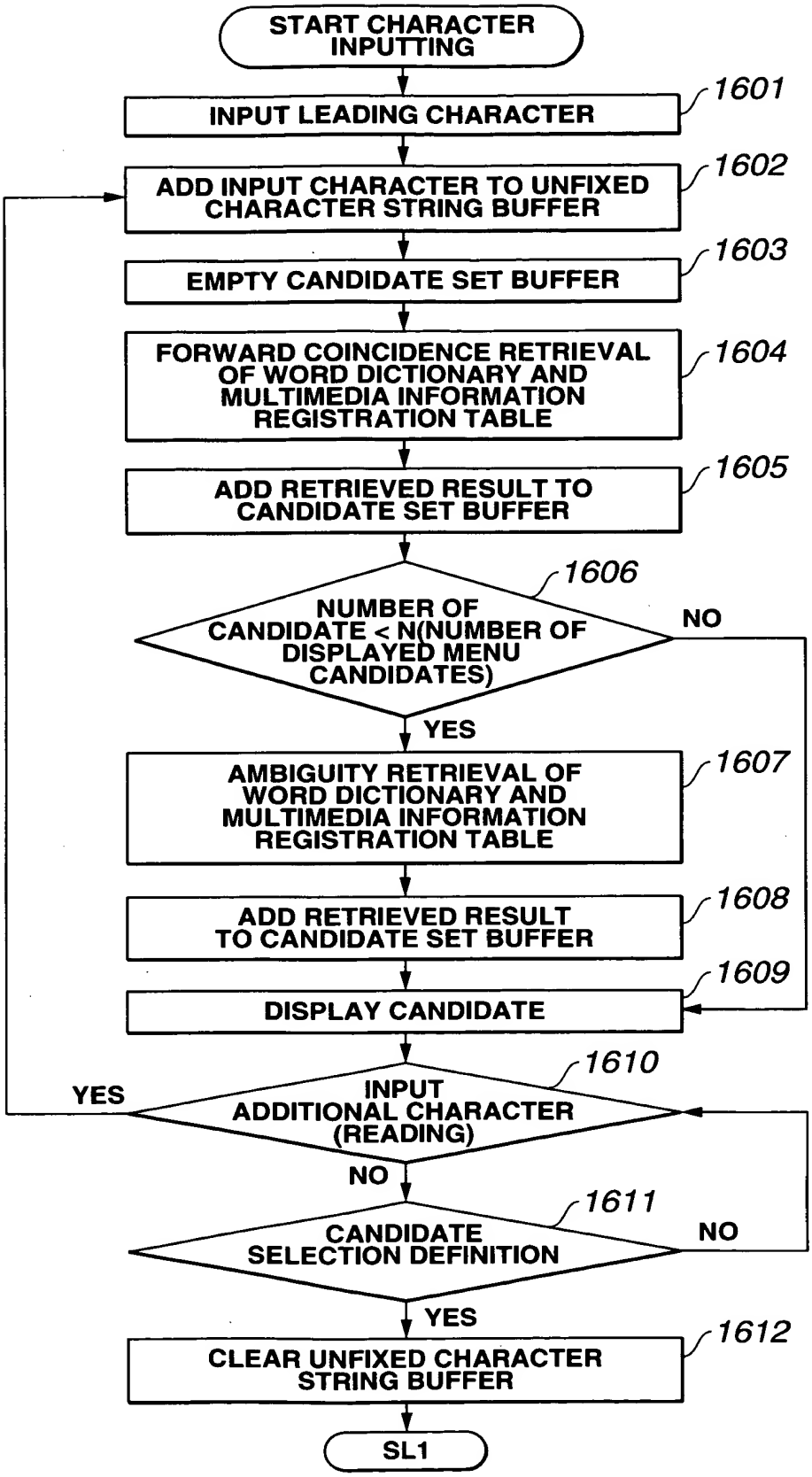

START CHARACTER INPUTTING
INPUT LEADING CHARACTER
1601
ADD INPUT CHARACTER TO UNFIXED CHARACTER STRING BUFFER
1602
EMPTY CANDIDATE SET BUFFER
1603
FORWARD COINCIDENCE RETRIEVAL OF WORD DICTIONARY AND MULTIMEDIA INFORMATION REGISTRATION TABLE
1604
ADD RETRIEVED RESULT TO CANDIDATE SET BUFFER
1605
NUMBER OF CANDIDATE < N(NUMBER OF DISPLAYED MENU CANDIDATES)
1606
NO
YES
AMBIGUITY RETRIEVAL OF WORD DICTIONARY AND MULTIMEDIA INFORMATION REGISTRATION TABLE
1607
ADD RETRIEVED RESULT TO CANDIDATE SET BUFFER
1608
DISPLAY CANDIDATE
1609
INPUT ADDITIONAL CHARACTER (READING)
1610
YES
NO
CANDIDATE SELECTION DEFINITION
1611
NO
YES
CLEAR UNFIXED CHARACTER STRING BUFFER
1612
SL1

FIG.16

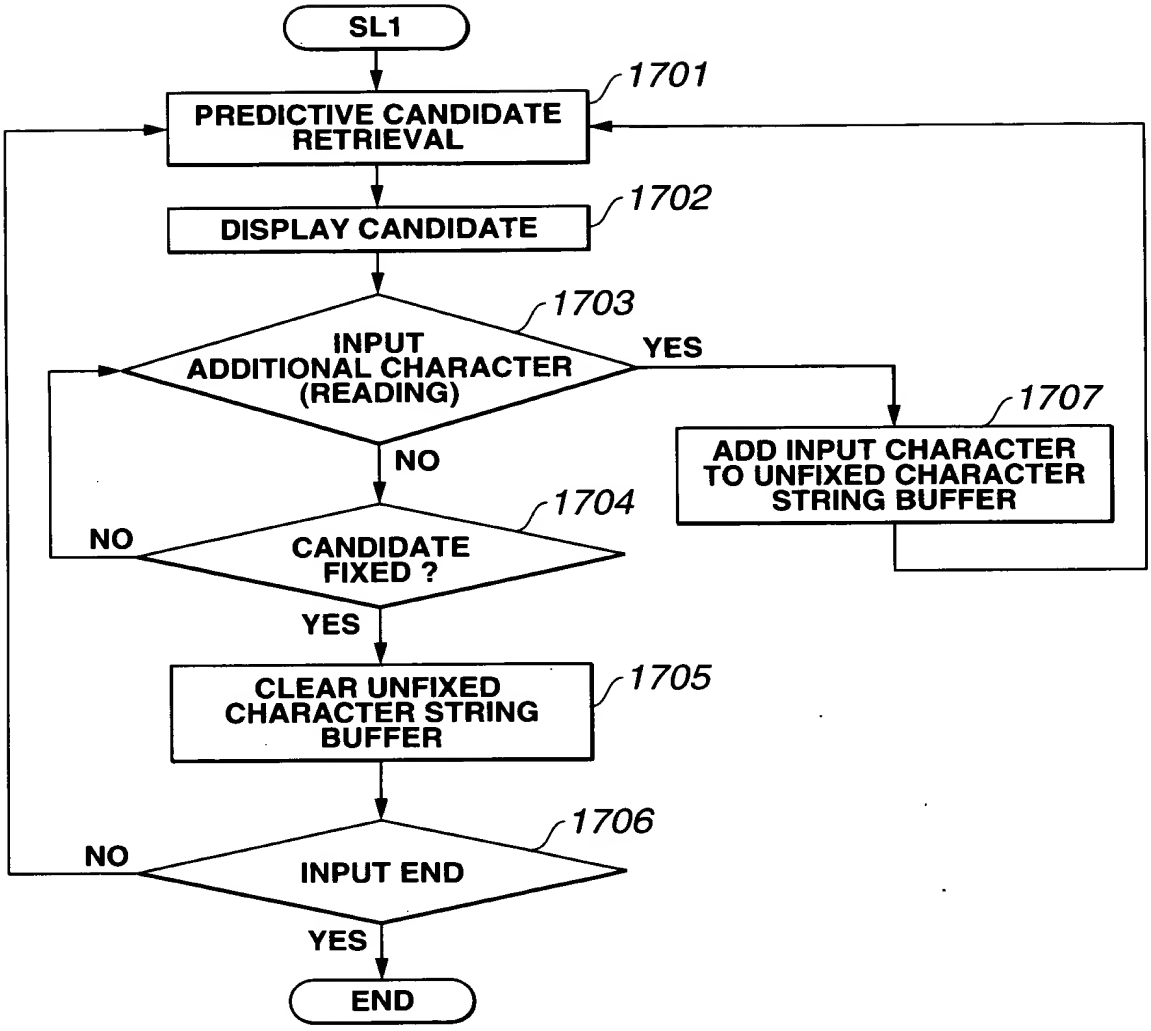

SL1
1701
PREDICTIVE CANDIDATE RETRIEVAL
1702
DISPLAY CANDIDATE
1703
INPUT ADDITIONAL CHARACTER (READING)
YES
NO
1707
ADD INPUT CHARACTER TO UNFIXED CHARACTER STRING BUFFER
1704
NO
CANDIDATE FIXED ?
YES
1705
CLEAR UNFIXED CHARACTER STRING BUFFER
1706
NO
INPUT END
YES
END

FIG.17

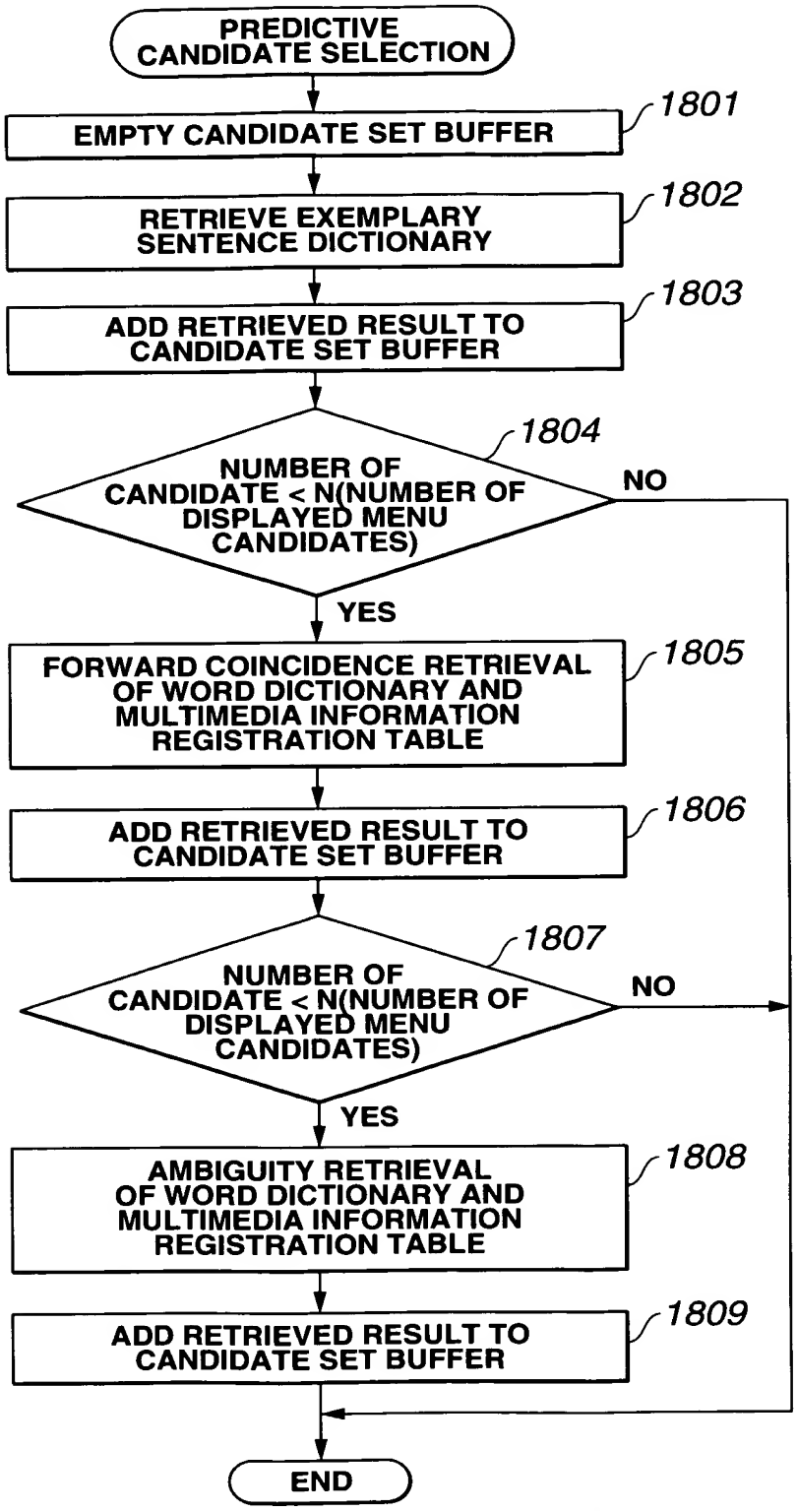

PREDICTIVE CANDIDATE SELECTION
EMPTY CANDIDATE SET BUFFER
1801
RETRIEVE EXEMPLARY SENTENCE DICTIONARY
1802
ADD RETRIEVED RESULT TO CANDIDATE SET BUFFER
1803
NUMBER OF CANDIDATE < N(NUMBER OF DISPLAYED MENU CANDIDATES)
1804
NO
YES
FORWARD COINCIDENCE RETRIEVAL OF WORD DICTIONARY AND MULTIMEDIA INFORMATION REGISTRATION TABLE
1805
ADD RETRIEVED RESULT TO CANDIDATE SET BUFFER
1806
NUMBER OF CANDIDATE < N(NUMBER OF DISPLAYED MENU CANDIDATES)
1807
NO
YES
AMBIGUITY RETRIEVAL OF WORD DICTIONARY AND MULTIMEDIA INFORMATION REGISTRATION TABLE
1808
ADD RETRIEVED RESULT TO CANDIDATE SET BUFFER
1809
END

FIG.18

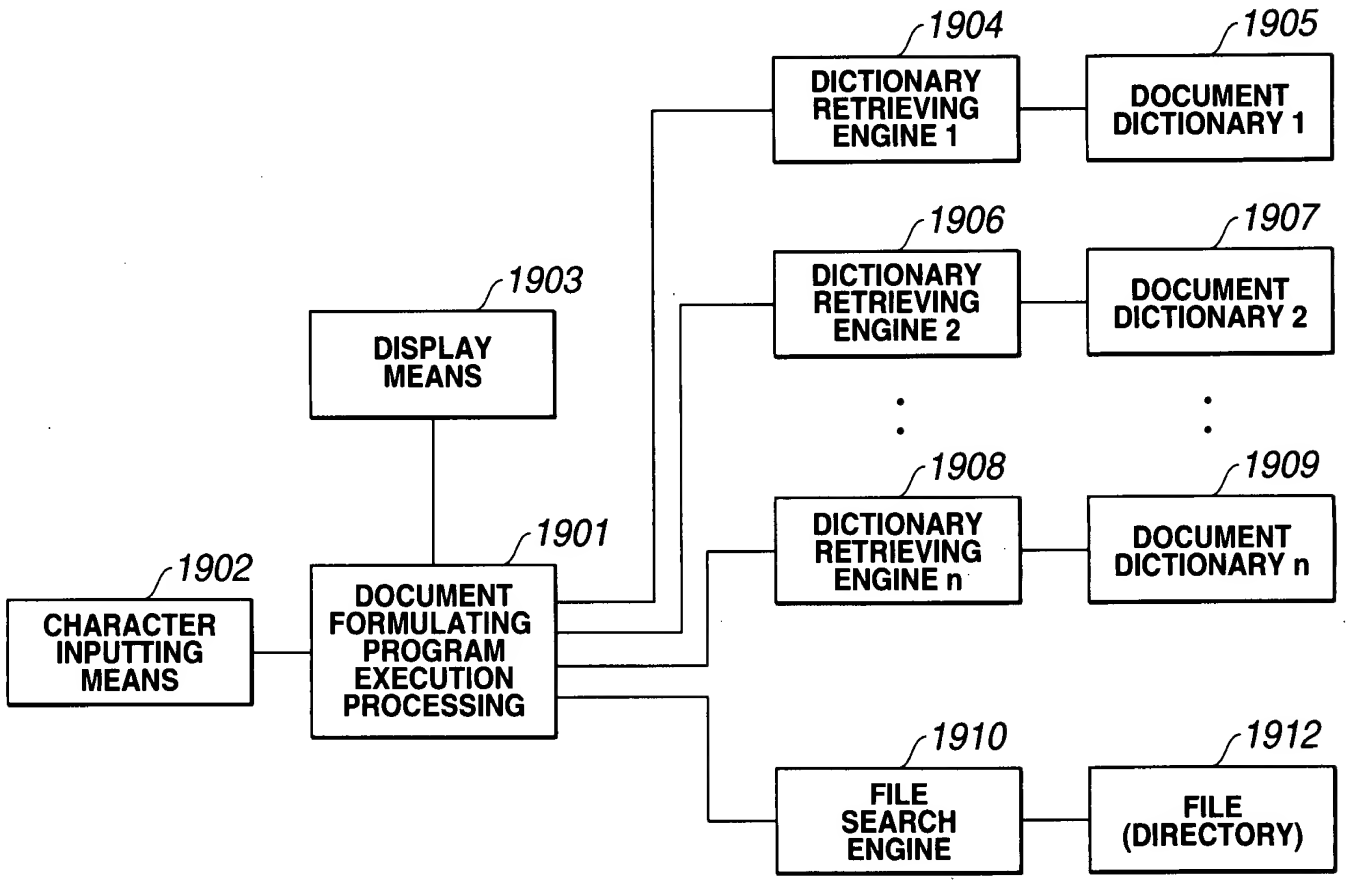

1904
1905
DICTIONARY RETRIEVING ENGINE 1
DOCUMENT DICTIONARY 1
1906
1907
DICTIONARY RETRIEVING ENGINE 2
DOCUMENT DICTIONARY 2
1903
DISPLAY MEANS
1908
1909
DICTIONARY RETRIEVING ENGINE n
DOCUMENT DICTIONARY n
1901
1902
CHARACTER INPUTTING MEANS
DOCUMENT FORMULATING PROGRAM EXECUTION PROCESSING
1910
1912
FILE SEARCH ENGINE
FILE (DIRECTORY)

FIG.19

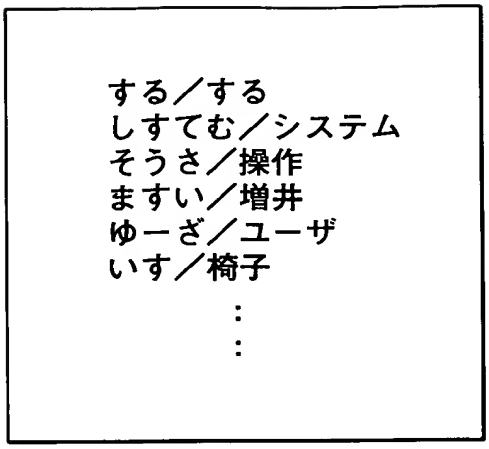

する／する
しすてむ／システム
そうさ／操作
ますい／増井
ゆーざ／ユーザ
いす／椅子

FIG.20

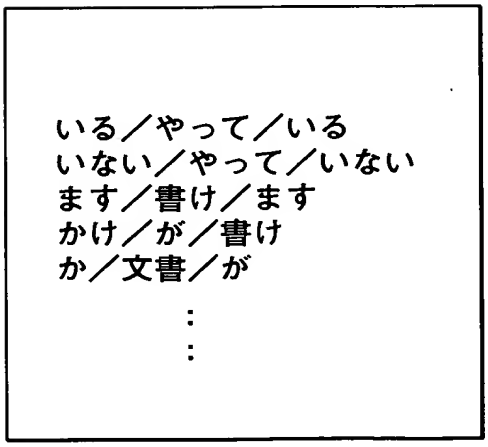

いる／やって／いる
いない／やって／いない
ます／書け／ます
かけ／が／書け
か／文書／が

FIG.21

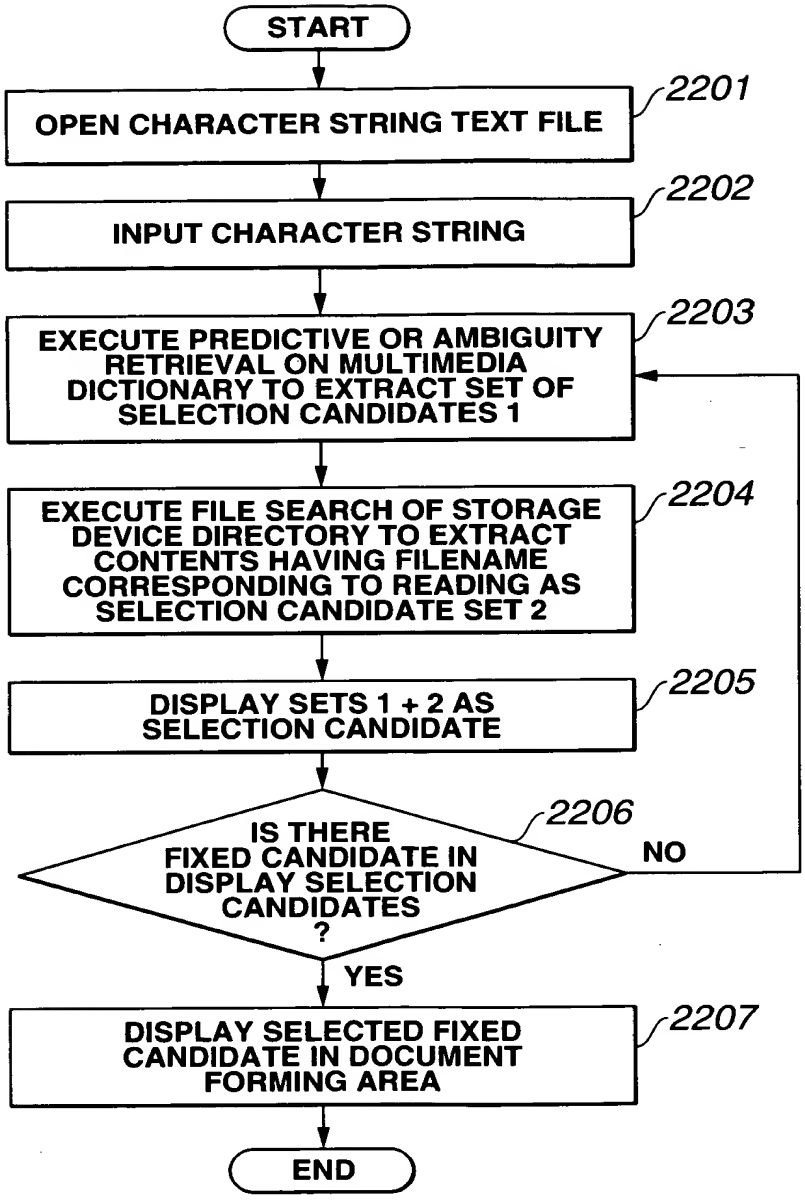

START
OPEN CHARACTER STRING TEXT FILE
2201
INPUT CHARACTER STRING
2202
EXECUTE PREDICTIVE OR AMBIGUITY RETRIEVAL ON MULTIMEDIA DICTIONARY TO EXTRACT SET OF SELECTION CANDIDATES 1
2203
EXECUTE FILE SEARCH OF STORAGE DEVICE DIRECTORY TO EXTRACT CONTENTS HAVING FILENAME CORRESPONDING TO READING AS SELECTION CANDIDATE SET 2
2204
DISPLAY SETS 1 + 2 AS SELECTION CANDIDATE
2205
IS THERE FIXED CANDIDATE IN DISPLAY SELECTION CANDIDATES ?
2206
NO
YES
DISPLAY SELECTED FIXED CANDIDATE IN DOCUMENT FORMING AREA
2207
END

FIG.22

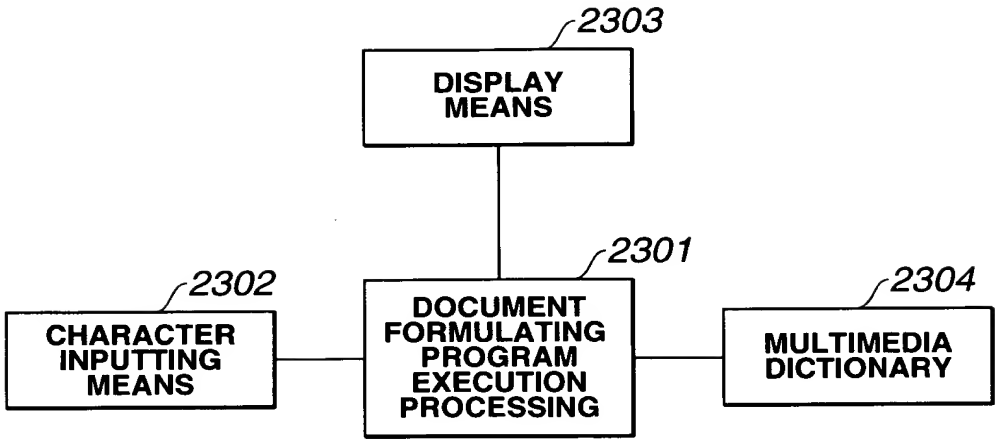

2303
DISPLAY MEANS
2301
2302
CHARACTER INPUTTING MEANS
DOCUMENT FORMULATING PROGRAM EXECUTION PROCESSING
2304
MULTIMEDIA DICTIONARY

FIG.23

| INPUT READING | ATTRIBUTE | RECORDING DATA |
|---|---|---|
| いぬ | TXT | 犬 |
| いぬ | GIF | いぬ. gif |
| いぬ | BMP | いぬ. bmp |
| いぬ | PICT | いぬ. pict |
| いぬ | JAVA | いぬ. Java Script |
| いぬ | : | : |

いぬ. gif

いぬ. bmp

:

:

FIG.24

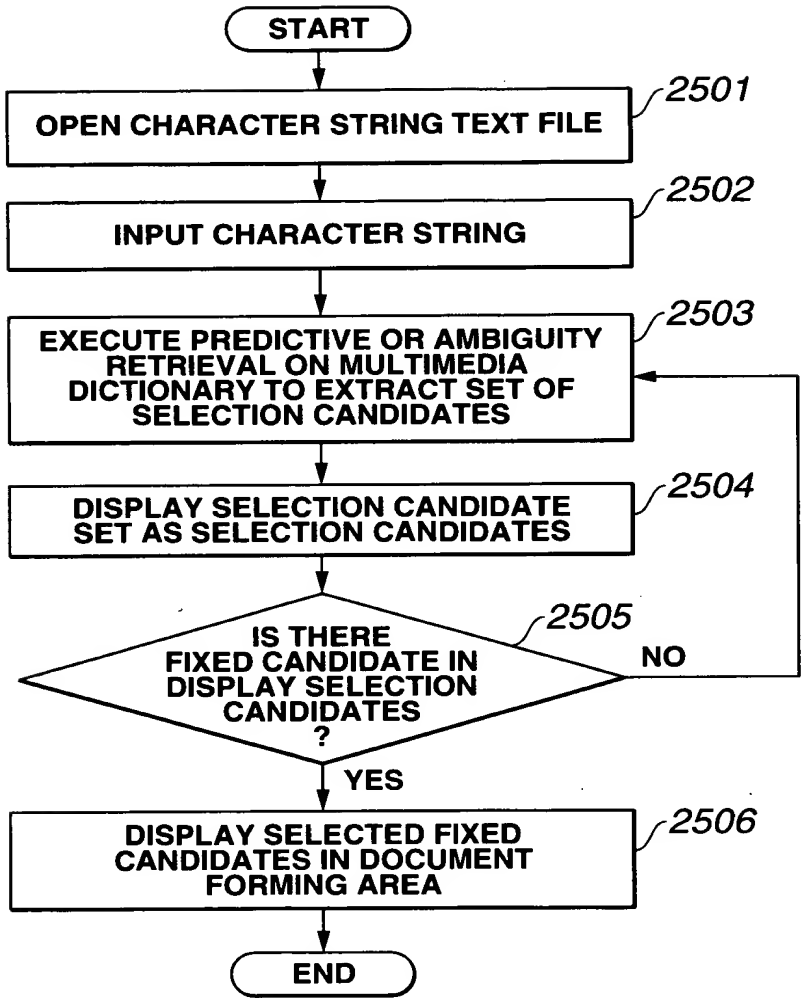

START
OPEN CHARACTER STRING TEXT FILE
2501
INPUT CHARACTER STRING
2502
EXECUTE PREDICTIVE OR AMBIGUITY RETRIEVAL ON MULTIMEDIA DICTIONARY TO EXTRACT SET OF SELECTION CANDIDATES
2503
DISPLAY SELECTION CANDIDATE SET AS SELECTION CANDIDATES
2504
IS THERE FIXED CANDIDATE IN DISPLAY SELECTION CANDIDATES ?
2505
NO
YES
DISPLAY SELECTED FIXED CANDIDATES IN DOCUMENT FORMING AREA
2506
END

FIG.25

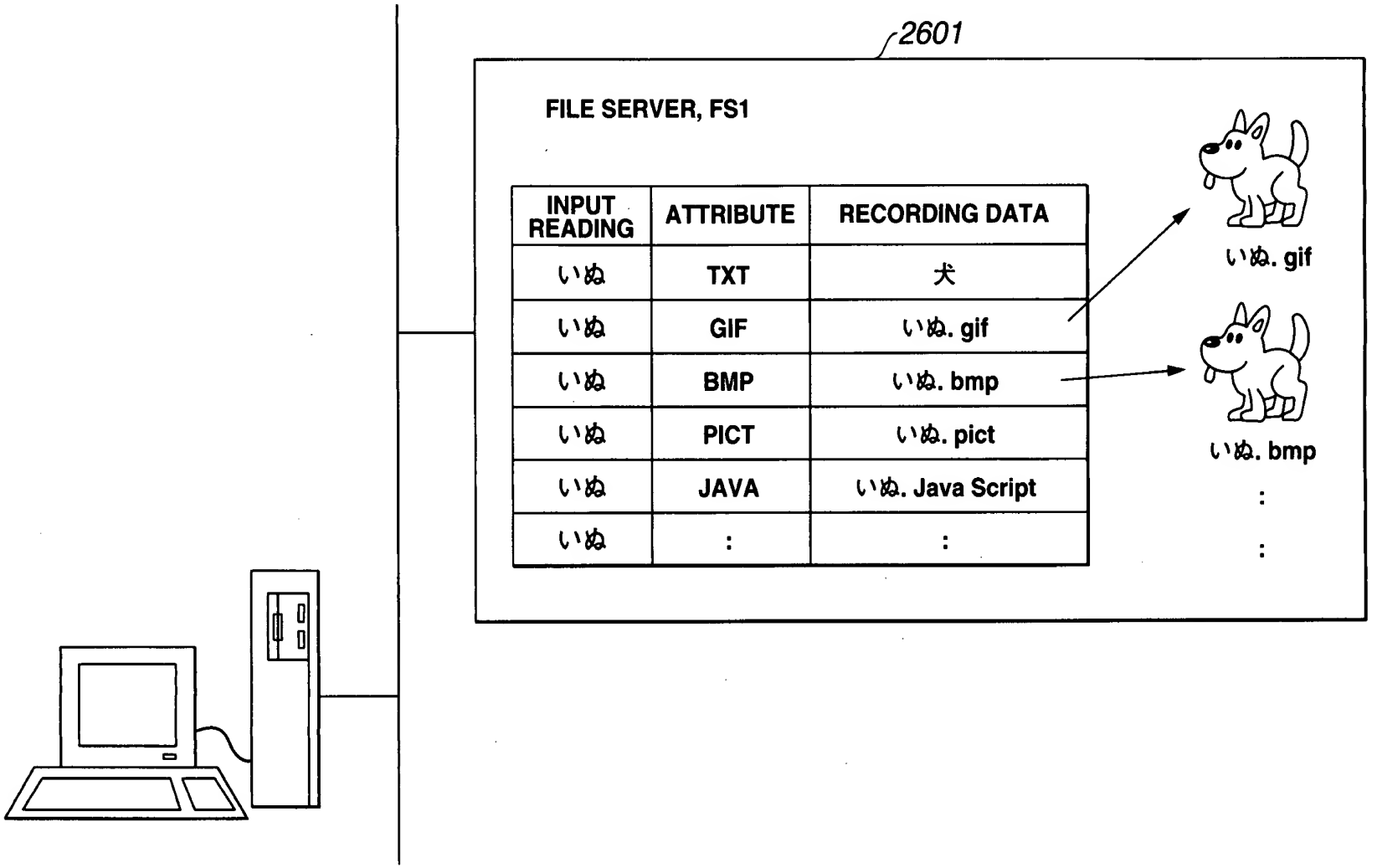

2601
FILE SERVER, FS1
INPUT READING
ATTRIBUTE
RECORDING DATA
いぬ
TXT
犬
いぬ
GIF
いぬ. gif
いぬ
BMP
いぬ. bmp
いぬ
PICT
いぬ. pict
いぬ
JAVA
いぬ. Java Script
いぬ
:
:
いぬ. gif
いぬ. bmp
:
:

FIG.26

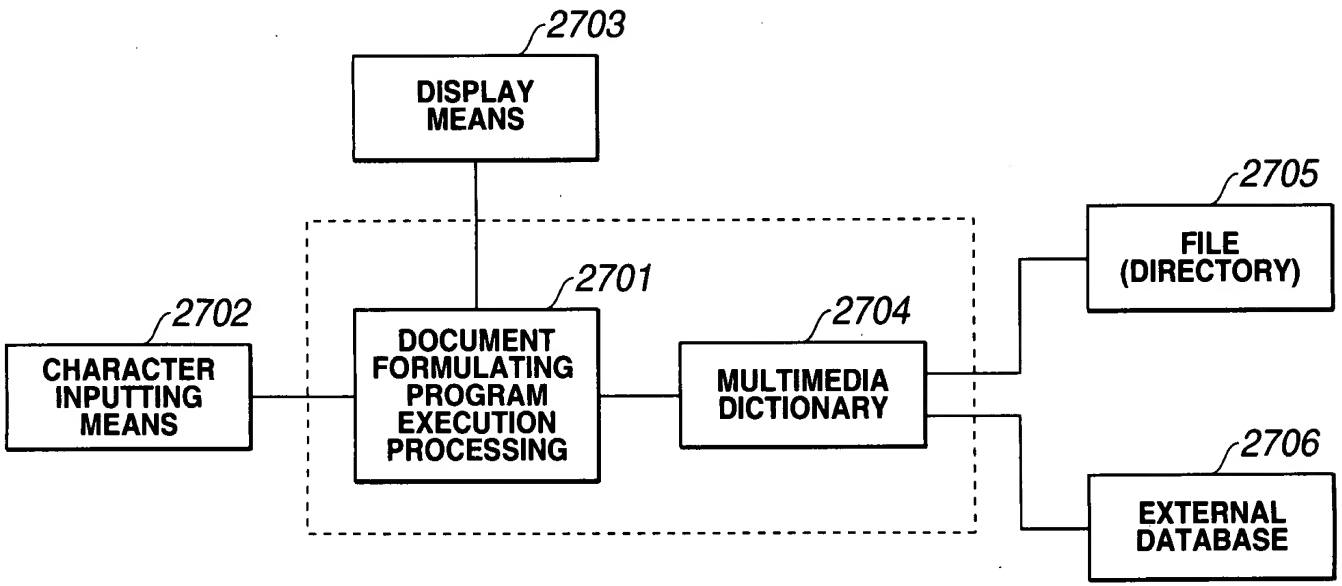

2703
DISPLAY MEANS
2705
FILE (DIRECTORY)
2701
2702
CHARACTER INPUTTING MEANS
DOCUMENT FORMULATING PROGRAM EXECUTION PROCESSING
2704
MULTIMEDIA DICTIONARY
2706
EXTERNAL DATABASE

FIG.27

| INPUT READING | ATTRIBUTE | DATA ADDRESS |
|---|---|---|
| いぬ | TXT | 犬 |
| いぬ | GIF | いぬ. gif |
| いぬ | BMP | ¥MY Document¥いぬ. bmp |
| いぬ | BMP | ¥¥¥File ServerFS1¥¥Doc¥いぬ. bmp |
| いぬ | JAVA | いぬ. Java Script |
| いぬ | JAVA | ¥¥¥File ServerFS2¥¥dl¥いぬ. Java Script |

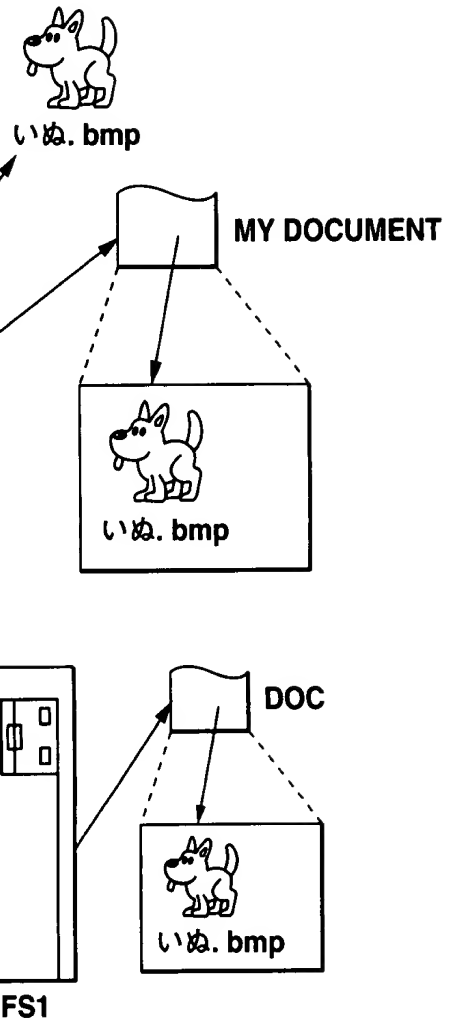



FIG.28